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WE CLAIM:

1	1.	A method of coding video information, comprising:
2		receiving the video information,
3		identifying a video object in the video information,
4		for the video object,
5		coding a first part of the video information associated with the one video
6		object as a first video object layer, and
7		coding a second part of the video information associated with the one video
8		object as a second video object layer.
1	2.	The method of claim 1, wherein the first video object layer is a base layer,
2	repre	senting the video information at a first level of image quality
1	3.	The method of claim 2, wherein the second video object layer is an enhancement
2	•	representing a portion of the video information not represented by the base layer.

- 1 4. The method of claim 1 wherein the second video object layer represents the video object at a greater spatial resolution than the first video object layer.
- The method of claim 1, wherein the second video object layer represents the video
 object at different times than the first video object layer.
- 1 6. A method of decoding coded video data, the coded video data including coded first 2 and second video object layers for a video object, the method comprising:
- 3 receiving the coded video data,
- decoding the coded first video object layer,
- 5 decoding the coded second video object layer, and
- generating a decoded video object based upon the decoded first and second video object layers.





- 7. The method of claim 6, wherein the decoded first video object layer is a base layer
- 2 representing source video information at a first level of image quality.
- 1 8. The method of claim 6, wherein the decoded video object includes video
- 2 information of the video object at a greater temporal rate than would be obtained by
- 3 decoding only the coded first video object layer.
- 1 9. The method of claim 6, wherein the decoded second video object layer represents
- 2 the video object at different times than the decoded first video object layer.
- 1 10. The method of claim 6, wherein the decoded second video object layer represents
- 2 the video object at a greater spatial resolution would be obtained by decoding only the
- 3 coded first video object layer.
- 1 11. A method of decoding coded video data, the coded video data including coded first
- 2 and second video object layers, the method comprising:
- 3 receiving the coded video data,
- distinguishing the coded first video object layer from the coded video data,
- decoding the coded first video object layer, and
- 6 generating a decoded video object based upon the decoded first video object layer.
- 1 12. A method of coding video information, comprising:
- 2 identifying a video object in the video information,
- 3 representing the video object as a series of video object planes,
- 4 coding a first part of the video object planes as a base video object layer, and
- coding a second part of the video object planes as an enhancement video object
- 6 layer.
- 1 13. The method of claim 12, wherein a first number of the video object planes are
- 2 coded in the base video object layer and a second number of the video object planes are
- 3 coded in the enhancement video object layer.



- 1 14. The method of claim 12, wherein a video object plane in the enhancement video
- 2 object layer is coded based upon a prediction made from a video object plane in the base
- 3 video object layer.
- 1 15. The method of claim 12, wherein a video object plane in the enhancement video
- 2 object layer is coded based on two candidates for prediction: a video object plane in base
- 3 video object layer and a second video object plane in enhancement layer.
- 1 16. The method of claim 12, wherein a video object plane in the enhancement video
- 2 object layer is coded based upon a prediction made from a second video object plane in
- 3 the enhancement video object layer.
- 1 17. The method of claim 12,
- wherein the coded base and enhancement video object layers provide spatial
- 3 scalability,
- 4 wherein at least one video object plane is coded in the base video object layer at a
- 5 first size and the same video object plane is coded in the enhancement video object layer
- 6 at a second, larger size.
- 1 18. The method of claim 12, wherein coding of the one video object plane in the
- 2 enhancement video object layer is made as a prediction based upon the coding of the one
- 3 video object plane in the base video object layer.
- 1 19. The method of claim 12, wherein coding of the one video object plane in the
- 2 enhancement video object layer is made as a prediction based upon the coding of the one
- 3 video object plane in the base video object layer.
- 1 20. The method of claim 12, wherein the coded base and enhancement video object
- 2 layers provide spatial scalability wherein at least one video object plane is coded in the
- 3 base video object layer at a first resolution and the same video object plane is coded in the
- 4 enhancement video object layer at a second, larger resolution.

- 1 21. A scalable video coding method providing generalized scalability, comprising:
 2 identifying a video object from the video information,
 3 representing the video object as a series of video object planes,
 4 coding a first part of the video object planes as a base video object layer, and
 5 coding a second part of the video object planes as an enhancement video object
 6 layer, the coding of the coded base video object layer as a candidate for prediction
- layer, the coding of the coded base video object layer as a candidate for pict using a single syntax applicable for both temporal and spatial scalability.
- 1 22. A method for decoding coded video data, comprising:
- decoding a first part of the video data as a base video object layer, and
 decoding a second part of the video data as an enhancement video object layer, the
 decoding made as a prediction based upon the decoded base video object layer and with
 reference to a syntax in the coded video data identifying whether temporal and spatial
 scalability coding is present in the coded video data.
- 1 23. The method of claim 22, wherein the decoding of the enhancement video object 2 layer comprises generating, for the video object layer, one of three predictions from the 3 group of:
- a prediction from a first video object plane,

 a prediction from a second video object plane, and
- a prediction obtained by averaging the first and second predictions.
- 1 24. The method of claim 22, wherein the coded video data identifies which of the three 2 predictions should be used for decoding the enhancement video object layer.
- 1 25. The method of claim 22, wherein the coded video information represents blocks of
- data for the enhancement video object layer and the predictions are made independently
- 3 on a block-by-block basis.
- 1 26. The method of claim 22, wherein the coded video data identifies, on a block-by-
- 2 block basis, which of the three predictions should be used for decoding the enhancement
- 3 video object layer.